Conference of the Specialists for Refractories of SCV/131-58-7-12/14 the Moscow Oblast

the low technical level of these works. Other reports were delivered by:

- 1)V.I.Sokolev and I.G.Ul'fskiy on the mechanization plans, on the automation of production processes, as well as on the modernization of the Leningrad Institute for Refractories.
- 2)K.A.Krasetin, D.S.Rutman and I.A.Suvorov on the modernization and mechanization of the Podol'sk works by its laborers and staff.
- 3)L, V. Vinogradova on highly-refractory products.
- 4) D.M. Poluboyarinov, Professor, Doctor of Technical Sciences, on the oxides of various metals used for the production of refractories.
- 5)M.I.Gurova and M.I.Krivoy on the introduction of new refractories in the Smigirevskiy works.
- 6)M.A.Rabinovich on measures taken for improving the work of the heating aggregates at the Snigirevskiy works.
- 7)T.A.Reyn and on improvements in the Vnukovo works.
- 8)M.F. Shcheglova on rationalization work in the Domodedovo works.

9)Z.Ye.Dobrin on experiments at the Borovichi kombinat for refrectories.

Card 2/3

Conference of the Specialists for Refractories of 30V/ 131-58-7-12/14 the Moscow Oblast

to)M.P.Dovnar on the dust removal in the Stalinegorsk works.

11)S.D.Skorokhod on demands set up by the metallurgists of the "Elektrostal' " works concerning refractories.

The participants approved of the measures outlined by the Mesova Chlast Souncil of National Economy to be taken for a further perfection and an increase of the production of the works in the area. It was recommended to intensify research work.

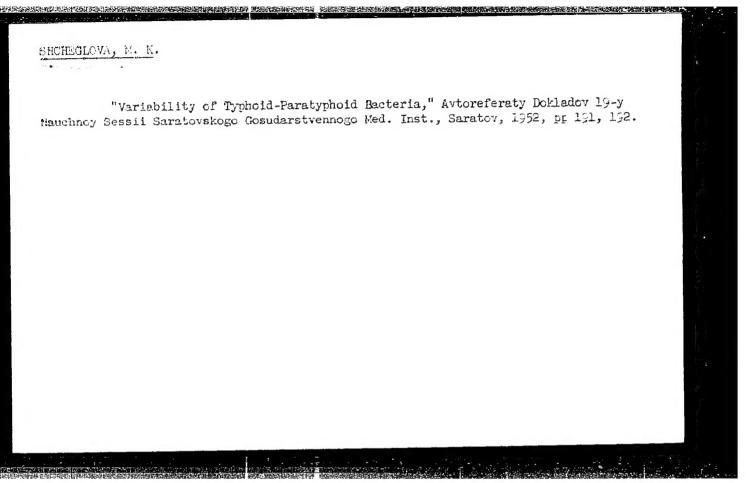
1. Geramic materials--USSR 2. Conferences

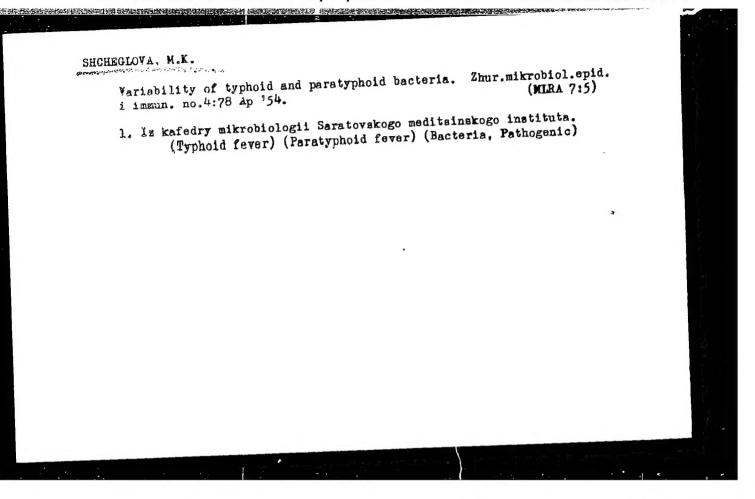
Card 3/3

SHCHEGLOVA, M.I., mladshiy nauchnyy sotrudnik

Investigating the elbow and the conical bell mouth as water meters in the PG3M and PG35M2pumps of the Central Asia Scientific Research Institute of Irrigation. Trudy SANIIRI no.106:47-59 '60. (MIRA 14:5)

(Water meters) (Pumping machinery)





SHCHEGLOVA, M. K., KHINCHUK, A. G., KUSINA, YE. P., FEYGEL'SON, A. S.

"on the mechanism of the therapeutic effect of penicillim and syntomycin in an experiment."

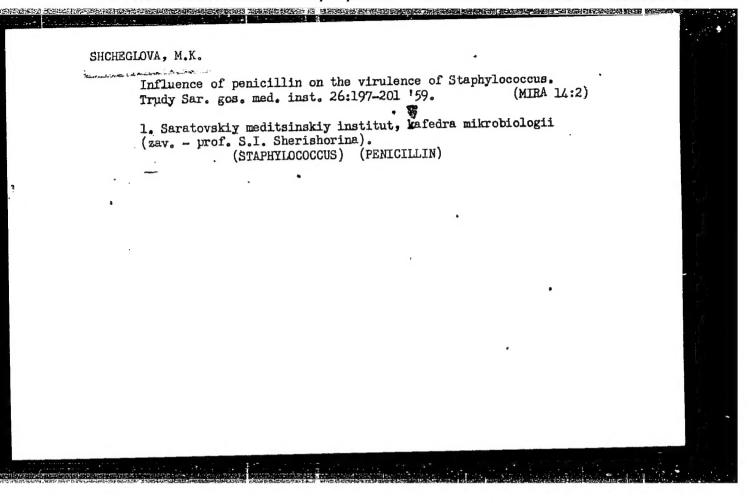
report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001548810004-0"

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SHCHEGLOVA M. F.
               Antibiotic action on the causative agent of listerellosis. Anti-
                                                       (MIRA 12:7)
               biotiki, 4 no.2:53-57 Mr-Ap 159.
               1. Kafedra mikrobiologii (zav. - prof. S.I. Sherishorina) Saratovskogo
               medits inskogo instituta.
                      (LISTERIA, eff. of drugs on
                          chloramphenical, chlortetracycline, penicillin & streptomycin
                           (Rus))
                       (CHLOPAMPHENICOL, eff.
                          on Listeria (Rus))
                       (CHIORTETRACYCLINE, eff.
                          same)
                       (PENICILLIN, eff.
                          same)
                       (STREPTOMYCIN, eff.
                          same)
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SHATSHIT, Marine Banstant's sha action of penicilis on (geographys) study beneaus. Limitation for conflucte of a Medical telenos to reacosis of Merchipley (hand oref. C.I. Cherishorina) Seratov Medical Institute, 1998



# SHCHEGLOVA, M.K. Listerella bacteriophage. Report No. 1. Trudy Sar. gos. med. inst. 26:230-232 '99. (MIRA 14:2) 1. Saratovskiy meditsinskiy institut, kafedra mikrobiologii (zav.- prof. S.I. Sherishorina). (LISTERELLA) (BACTERIOLOGY—GULTURES AND GULTURE MEDIA) (BACTERIOPHAGE)

SHCHEGLOVA, M.K.

Some properties of a Listeria bacteriophage. Zhur. mikrobiol., epid. i immun. 33 no.1:99-102 Ja 162. (MIRA 15:3)

l. Iz Saratovskogo meditsinskogo instituta.
(LISTERELLA) (BACTERIOPHAGE)

\$/052/61/006/004/004/005 C111/C222

14,6200

Bol'shev, L.N., Gladkov, B.V., Shcheglova, M.V. AUTHORS:

Tables for calculation of B and Z-distribution functions TITLE

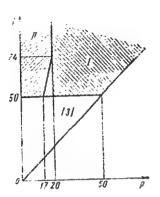
PERIODICAL: Teoriya veroyatnostay i yaye primeneniya, v. 6, no. 4, 1961,

TEXT: Tables I and II for the determination of the B and Z - distribution functions  $I_{\chi}(p,q)$  and  $F_{\chi}(z)$  are given on four pages. The tables complement the tables given by K. Pearson (Ref. 3: Tables of the Incomplete Beta-function, Biometric Laboratory, London, 1934). The figure

Card 1/4

S/052/61/006/004/004/005 C111/C222

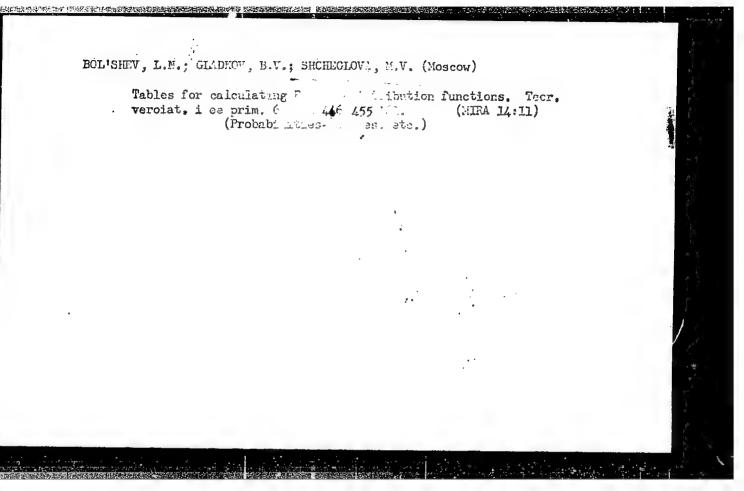
Tables for calculation of B



X

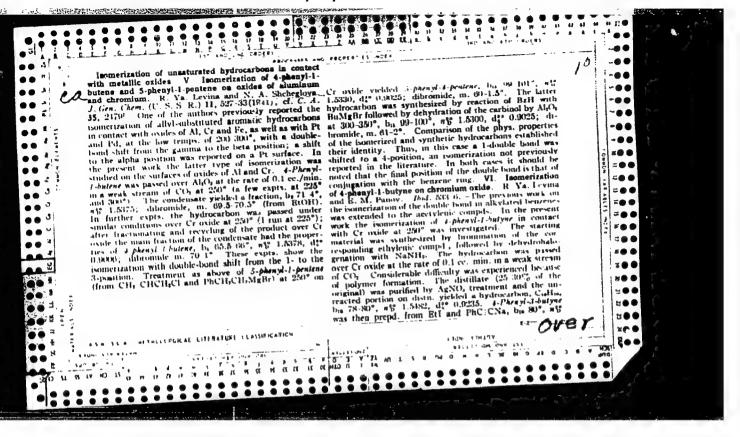
shows the regions of the (p,q) - plane in which tables I,II and those of (Ref. 3), respectively, are to be used. Table I gives the values of  $10^5 + 1(u,v)$  and  $10^5 + 2(u,v)$ , where -1 and -2 are the correction terms Card 2/4

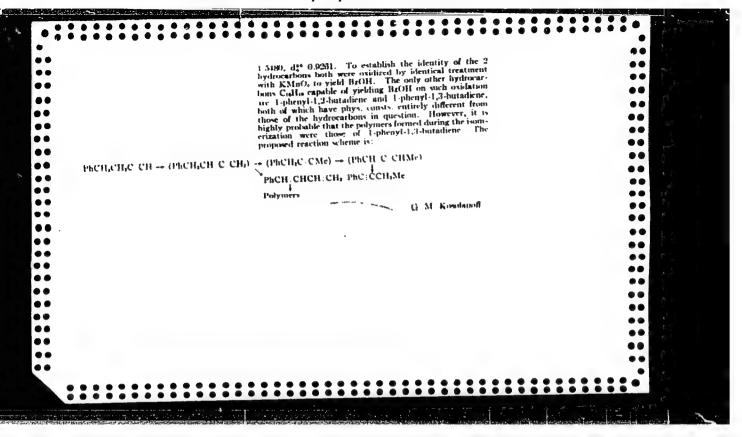
Their armidian of B ... 5/052/61/006/004/004/005
Their armidian. I figure 3 Series one and dinon-Soviet-blos references. Fir references to English language publications read as firll was 16 Newton. Teolog of the Incomplete Beta-function, Biometri. Laboration, conduct 1934; Tables of the Rinomini Probability Disor, barron dational Bureau of Standards, Applied Mathematics Series 6, Walley & Sons inc. London, Chapman & Hall, Limited, 1953; J. Wishart, Ar approximate formula for the numulative z-distribution. Ann. Math. Statistic 2007. 1964-1960.
SUBMITTED: June 19 1100

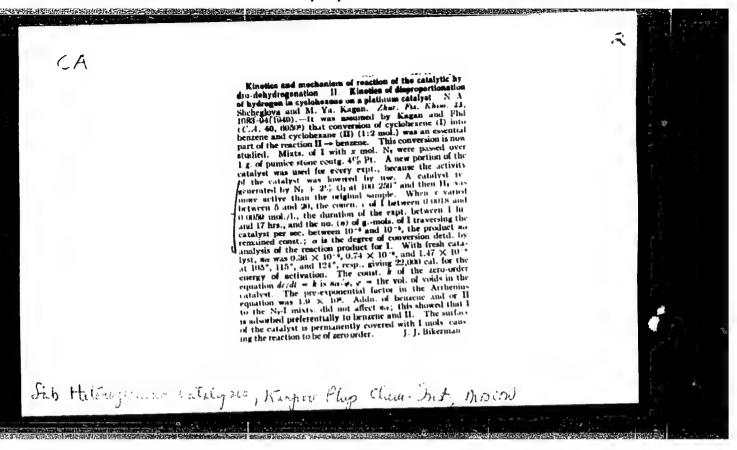


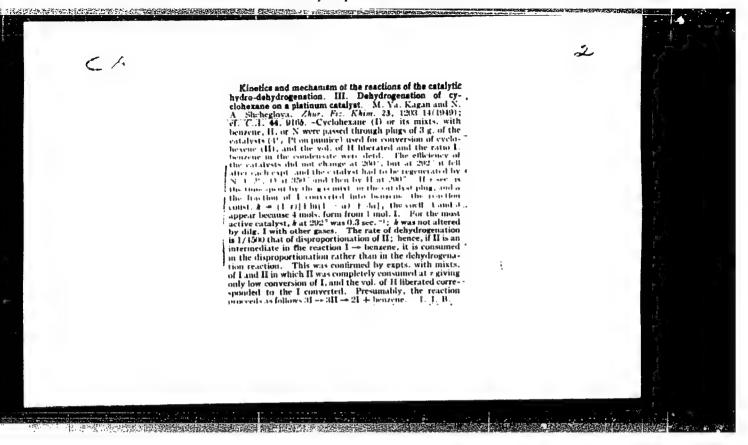
### "APPROVED FOR RELEASE: 03/14/2001

### CIA-RDP86-00513R001548810004-0









STOTEGLEVA, T. A.

USSR/Chemistry - Physical chemistry

Card 1/1

: Pub. 147 - 13/21

Authors

Pshezhetskiy, S. Ya.; Lyubarskiy, G. D.; Shcheglova, N. A.; and

Merilyaynen, S. K.

Title

: Relation between the kinetics of catalytic dehydrogenation of hydrocarbons and the structure of the latter. Part 3 .- Comparison of kinetics data for n-butane and n-butylene; probable mechanism of dehydro-

genation reaction

Periodical

: Zhur. fiz. khim. 8, 1458-1464, Aug 1954

Abstract

: The difference between the reaction of n-butane and n-butylene dehydrogenation kinetics and the reaction of these hydrocarbons with the catalyst was established by comparing kinetics data. The presence of a double C=C bond in the butylene molecule was considered to be the basic cause for a more intensive reaction of this hydrocarbon in comparison with that of n-butane. The formation of intermediate surface compounds of the adsorbed radical type and consequent separation of the second H-atom was thought to be the most probable reaction mechanism. Three references: 2-USSR and 1-USA (1948-1954). Tables; graphs.

Institution : The L. Ya. Karpov Physico-Chemical Institute, Moscow

Submitted

November 13, 1953

SHCHLGLOV A, II. A.

Physical chemistry USSR/ Chemistry

Card

Pub. 147 - 15/25

Authors

: Shcheglova, N. A., and Pshezhetskiy, S. Ya.

Title

: Kinetics of dehydrogenation of n-butylene

Periodical

: Zhur. fiz. khim. 28/7, 1280 - 1285, July 1954

Abstract

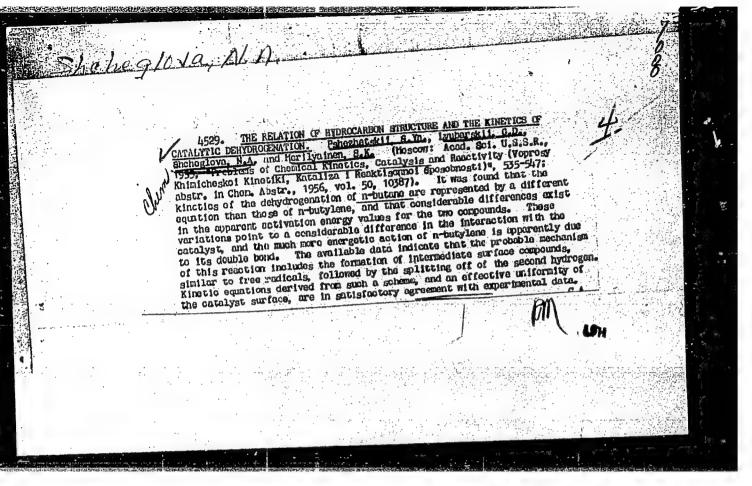
The kinetics of butylene dehydrogenation reaction over an aluminumchromate catalyst, was investigated at 450 - 500° and partial butylene pressures of 0.05 - 0.3 atm. Equation, describing this dehydrogenation reaction kinetics, is given. The thermal effect of this reaction, as result of conjugation of double bonds, is ~ 26000 cal./mol., i.e., somewhat lower than the thermal effect of butane dehydrogenation reaction. The effect of butadiene additions on the rate of butylene hydrogenation, is explained. Two USSR references (1946 and 1954).

Tables; graphs.

Institution : The L. Ya. Karpov Physico-Chemical Institute, Moscow

Submitted

: November 13, 1953



SOV/20-120-6-21/59 Shigorin, D. H., Shcheglova, N. A.,

Hurmukhametov, R. N., Dokunikhin, W. S. AUTHORS:

The Effects of the Position and of the Nature of the Sub-TITLE:

stituent on the Fluorescence Spectra of Anthraquinone Deriv. atives in Frozen Solutions(Vliyaniye polozheniya 1 prirody zamestitelya na spektry fluorestsentsii proizvodnykh antra-

khinona v zamorozhennykh rastvorakh)

Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 6.

PERIODICAL: pp 1242 - 1245 (USSR)

First a survey of previous papers and of the present state of the problem under review is given. This is a study of the ABSTRACT:

fluorescence of much diluted solutions ( $C = 10^{-4}$  to  $10^{-5}$  mol/1) of anthraquinone and of its derivatives at 770K. n -heptane, ... -hexane and n -octane served as a solvent. The spectra were excites by a group of mercury lines. A fine structure of the oscillations was found in the fluorescence spectra of anthraquinone, of its  $\beta$ -derivatives ( $\beta$ -Cl-anthraquinone,  $\beta$ -methyl

anthraquinone,  $\beta$ -amino anthraquinone) and of anthrone. The

spectrum exhibited by anthraquinone in different solvents remains Card 1/3

The Effects of the Position and of the Nature of the SOV/20-120-6-21/59 Substituent on the Fluorescence Spectra of Anthraquinone Derivatives in Frozen Solutions

the same. It has 24 - 28 lines and shows a complicated structure. The spectrum of anthraquinone apparently is divided into several parts by the most intensive electron oscillation ands. The shape of the spectrum is repeated in each of these p. . ts. These principal bands are divided into several components. When hexane is used instead of octane the number of components and the nature of the splitting-up is changed, the position of the bands and the distances between them are maintained. The principal form of the spectrum is maintained in the spectra of all compounds with a fine structure. It exhibits a three times repeated picture in the ranges between the intensive bands. The spectra of the a derivatives of anthraquinone are markedly shifted towards red as compared to the spectra reviewed above. They appear in the form of rather washed-out bands. The spectrum of  $\beta$ -oxy anthraquinone also consists of washed~out bands and is shifted towards red. The evidence advanced substantiates the hypotheses concerning the influence of the position of the substituent and of its nature upon the fluorescence spectra of the molecules under consideration.

Card 2/3

. The Effects of the Position and of the Nature of the SOV/20-120-6-21:59 Substituent on the Fluorescence Spectra of Anthraquinone Derivatives in Frozen Solutions

> There are 2 figures, 1 table, and 7 references. which are Soviet.

PRESENTED: March 27, 1958, by A. N. Terenin, Member, Academy of

Sciences, USSR

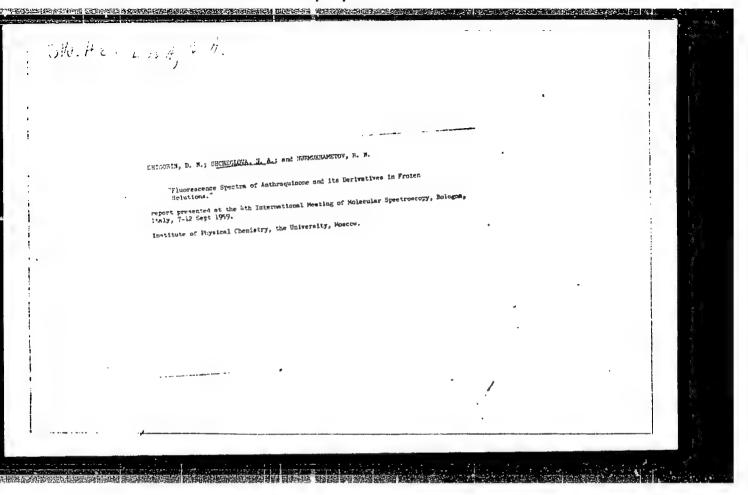
··· 中华在中国中国的国际,这种中国的国际中国的政策和国际的国际的国际的

SUBMITTED: March 21, 1958

1. Anthracene solutions-Fluorescence 2. Anthracenez-Spictra

3 Anthracenes-Structural analysis

Card 3/3



SOV 48-23-1-8/36 24(7) Shigoria, D. K., Shaheglova, H. A., Murrukhametov, R. H. AUTHORS:

TITLE:

Influence of the Position and Nature of the Substituent Upon the Fluorescence Spectrum of Anthraquinone Derivatives in Frozen Solutions (Vliyaniye polozheniya i prirody zamestitelya na spektry fluorestsentsii proizvodnykh antrakhinona

v zamorozhennykh rastvorakh)

Izvestiya Akademii nauk SSSR. Seriya fizioheshaya, 1950. PERIODICAL:

Vol 23, Nr 1, pp 37 - 39 (USSR)

In the present caper the authors studied the fluorescence ABSTRACT:

spectra of strongly dilute solutions of anthraquinone and its derivatives at 770K. n-hexane, n-heptane and n-octane were used as solvents. The spectrum investigations were carried out according to the method described by Shpoliskiy (Ref 1). The oscillation microstructures of the fluorescence spectra of anthraquinone and its g-derivatives; g-chloro.  $\beta\text{-methyl}$  and  $\beta\text{-amino}$  anthraquinone were considered. The anthraquinone spectrum covers a few intense principal bands which reappear in each spectrum. Each band is split into several components. On the transition from hexane to octane.

Card 1/3 the number of components and way of distribution vary,

CIA-RDP86-00513R001548810004-0" APPROVED FOR RELEASE: 03/14/2001

Influence of the Position and Nature of the Substituent SIV 48-23-1-6 36 Upon the Fluorescence Spectrum of Anthraquinane Derivatives in Propen Solutions

whereas the position of the bands is maintained. It was observed that all spectra tend toward equalizing the intensity of the components of the central bands during the shift toward the long-wave range. The components of the intense bands correspond to the completely symmetrical C=O oscillation in the ground state of electrons. The nature of distribution of the electron-vibration level is connected with the orientation of fluorescent molecules in the crystal lattice of the colvent and has hitherto been investigated insufficiently. The anderivatives of anthraquinone yield different spectra. Within the red range they are chifted to a large extent and their binds are indistinct. The authors inventigated the spectra of a-oxy anthraquinone, a-chloro anthraquinone, 1,5-dioxy anthraquinone, 1,8-dioxy anthraquinone, 1,4-dioxyanthraquinone and S-oxy anthraquinone. The latter B-derivative belon; s also to this group because of its hydrogen bond that is produced in weak concentrations. This hydrogen bond renders the spectra of the c-derivatives of anthra-

Carl 2 3

Influence of the Position and Nature of the Substituent SOV/45-23-1-, 36 Upon the Fluorescence Spectrum of Anthraquinone Derivatives in Frizen Solutions

quinone indistinct. It always occurs in such cases where an interaction between the substituents OH or NH, and the

0=0 group is possible. The data obtained on the fluorescence of frozen solutions of anthraquinone and its de ivatives are parallel to those mentioned by Karyakin and Terenin (Ref 3) on the investigations of fluorescence extinction by oxygen as well as to the changes in the electronic and infrared absorption spectra of anthraquinone derivatives. There are 4 figures, 1 table and 4 Soviet references.

Card 3/3

SHIGGRIN, D.H.; SHCHEGLOVA, N.A.; DOKUNIKHIN, N.S.

Luminescence spectra of halide derivatives of anthraquinone in frozen solvents. Izv.AN SSSR 24 no.6:778-781 Je '60.

(MIRA 13:7)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova. (Anthraquinone--Spectra)

81416

s/020/60/132/06/41/068 B004/B005

5 4130 AUTHORS: Shigorin, D. N., Shchaglova, N. A., Dokunikhin, N. S.,

Puchkov, V. A.

The Nature of the Hydrogen Bond and Its Influence on the

TITLE:

Electron Spectrum of Molecules

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 6, PERIODICAL:

pp. 1372 = 1375

TEXT: In the introduction, the authors discuss data published on the influence of the hydrogen bond on the vibration spectratof molecules mentioning papers by N. D. Sokolov (Ref. 1) and A. N. Frumkin (Ref. 5) Then, they investigate the coplanar system of a-nydroxy anthraquinone in which a  $\pi$ -electron interaction takes place, and the C=O group is decisive for the electron excitation. The authors assume the formation of a quasiaromatic ring by means of the H-bond (Fig. 1). The investigation of the electron vibration spectra of this compound and some of its derivatives yielded the valence vibration of the C=O group in the basic state. On absorption of a light quantum, a change in the distribution of

Card 1/3

81416 s/020/60/132/06/41/063 B004/B005 The hature of the Hydrogen Bond and Its Influence on the Electron Spectrum of Mclecules the electron density, of the interatomic distances, etc. occurs which may the electron density, of the interstance distances, etc. occurs suiton may lead to a solidification of the ring containing the H-bond (0-H.o.o.0=C). In the excited state, the action of the people of the Heaton becomes more probable. The rate of transformation of electron energy into vibration energy, and the probability of a redistribution of vibration energy on energy, and one propagative of a region. The life of each excited vibration sublevels increase in this connection. is reduced, and the luminescence spectra of the compounds containing the H-bond have a blurred fine structure. This is confirmed by the luminescence spectra of 1-hydroxye, 1,4-, and 1-5-hydroxy anthraquinone tuminescence spectra of 1-nyaroxy, 1,4-, and 1-)-nyaroxy anthraquinone which in fact show no fine structure (Fig. 2, insert after p. 1341). The luminescence spectra of a-methyles, a-metholys, and a-phenyl anthraquinone (Fig. 2) having no H-bond show a fine structure. The data of the spectra (Fig. 2) naving no nepond show a line structure. The date of the spectral are compiled in Table 1. The difference between absorptions and emission spectra is discussed; it is explained by the circumstance that the spectra is discussed; it is explained by the circumstance what the structure of the molecule and its electronic state change with the absorption of the energy quantum hy abs; this change is only eliminated after emission of the light quantum homiss. In substances with Habond, the excited electron level formed after absorption of hyabs is not Card 2/3

81416

The Nature of the Hydrogen Bond and Its Influence S/020/60/132/06/41/068 on the Electron Spectrum of Molecules B004/B005

identical with the electron level at which emission begins (Fig. 3). Coplanarity is a condition for the occurrence of such intramolecular bonds. The increased interaction of a bridge with H-bond on the basis of 9.(p-hydroxym) phenyl acridine investigated by A. N. Terenin and V. V. Shablya (Ref. 13), and the important role of these phenomena in migration processes of the energy in high-molecular compounds (polyamides, protein, etc.) are pointed out. Levshin's law of mirror symmetry is mentioned. There are 2 figures, 1 table, and 15 references: 14 Soviet, 1 British, and 1 US.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physical-chemical Institute imeni L. Ya. Karpov)

PRESENTED: February 11, 1960, by A. N. Terenin, Academician

SUBMITTED: February 14: 1960

Card 3/3

SHIGORIN, D.H.; SHCHEGIOVA, N.A.; DOKUNIKHIN, N.S.

Luminescence spectra of halo derivatives of anthraquinone in frozen solutions. Dokl.AN SSSR 133 no.2:420-423 J1 \*60. (MIRA 13:7)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova. Predstavleno akademikom A.N. Tergninym. (Anthraquinone--Spectra)

### "APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001548810004-0

23857 \$/020/61/137/006/019/020 2101/2201

\$4,3500(1137,1138,1395)

AUTHORS:

Shigorin, D. N., Shcheglova. N. A., and Dokunikhin, N. S.

TITLE:

Expressions of the autonomy of electron groupings in

luminescence spectra of complicated molecules

PERIODICAL:

Doklady Akademii nauk SSSR. v. 137, no. 6, 1961, 1416-1419

TEXT: A quantum-mechanical study of the electron levels of simple molecules with multiple bonds has yielded the following results: 1) excitation is in relation with the participation of  $\pi$ - and p-electrons of the chromogenic group (>C=C<, C=0, etc.), on whose energetic state the substituents (auxochromes) bear an influence. The authors of the present paper wanted to clarify the problem as to whether the autonomy of electron groupings (chromophores) appears both with absorption and with emission (luminescence) The luminescence spectra of complicated molecules were examined, such as arthraquinone (II), phenanthrene quinone (TII), and anthrone (IV), as well as thioindigo and its derivatives. The investigation was conducted at concentrations of  $10^{-4}$ - $10^{-5}$  mole/1 in n-paraffins. T =  $77^{\circ}$ K. Results are presented in Fig. 1. For II, its  $\alpha$ - and  $\beta$ -monohalogen-,  $\alpha$ -methyl-,  $\alpha$ -phenyl-

Card 1/6

23857 \$/020/61/137/006/019/020 B101/B201

Expressions of the ...

and  $\alpha$ -methoxy derivatives, as well as for III and IV the following was found: the distance between the intensive bands and the weak bands amounts to 1664  $cm^{-1}$  (for III and IV 1686  $cm^{-1}$ ) corresponding to the frequency of stretching vibrations of the chromophore C=0 group. For mesobenzanthrone, its mono- and dibromo derivative, and for thioindigo the fine structure is, in accordance with E. V. Shpol'skiy (UFN. 68. 51 (1959); 71, 215 (1960)) characterized by the frequencies of the symmetric vibrations of condensed aromatic rings, and not by the frequencies of the stretching vibrations of the C=O group, which, consequently, does not act as chromophore in these compounds. It is inferred from the foregoing that an unequivocal autonomy of electron groups (chromophores) appears both in the absorption and luminescence spectrum of complicated molecules. These effects are best observed at low temperatures, since at higher temperatures the spectrum becomes unclear due to transformation of electron energy into vibrational energy of the rings. For molecules with two chromophore groups at low temperatures it has been noted that depending on the conditions of excitation (A, temperature, medium) either electron state, but also both spectra, may be observed. A further fact that confirms the conservation and the strengthening of hydrogen bonds in a-hydroxy desivatives of anthraquinone in

Card 2/6

23857

s/020/61/137/006/010/020

Expressions of the ...

the excited state is the luminescence spectrum of 1, 4, 5, 8-tetrahydroxy unthraquinene. Each C=C group participates in two H bonds, so that four additional quesiaromatic rings, a quasi-corona

(X) forms.

The opentrum of this compound displays frequencies similar to those of the ocrons as well as frequencies that are characteristic of anthracene. A chromophore system is formed which comprises rings with H bands, and in which the frequencies of the stretching vibrations of the C=O groups are no here leterminative. The spectra of 3-substituted anthraquinons (Br. I, R-C-C=C) allow the conclusion to be drawn that (under adequate conditions of trestation) the intensity of the Raman band of the chromothere (C=G) and the intensity, corresponding to the O" - O' transition in the luminescence spectrum, change. To conclude: local, "multicentered" electron orbits may arise with the participation of a electrons in complicated molecules. Academician Card 3/6

PERSONAL PROPERTY AND ADDRESS OF THE PERSON 23857 \$/020/61/137/006/019/020 Expressions of the .... 2101/B201 A. N. Taronin is thanked for discussions. There are I figure and 11 reforences: 10 Soviet-bloc and 1 non-Soviet-bloc. The reference to Englishlanguage publication reads as follows: I. Y. Bewen, B. Brocklehurge. J. Chem. Soc., 1954, 3875. ASSOCIATION: Fiziko-khimicheskiy institut im. I. Ye. Karpova (Physicochemical Institute im. L. Ya. Karpov) PRISERFELD: November 9, 1960, by A M Terenin, Academician Movember 2 1960 ... SUBLITABLE: Fig. 1. Luminescence apactra of anthraquinone derivatives in hertone at Legend: a)  $\lambda_{Hg} = 313$  mµ; b)  $\lambda_{Hg} = 365$  mµ; 1) a-chlogeanthrachinon; 2) 1,8dibydroxy unthraquinone; 3) 1,5-dibydroxy anthraquinone; 4) 1,4,5,6- in totrahydroxy anthraquinone (A = ordission; 5 = observed to 5); 5) anthrons (in htxane), the churchydroxy art of the apacter ordin ordin = 4013 A is not shown; Card 4/6

SHOWERISMA, M.A., SERRESHIN, B.H.: IDENDITERS, M.S.

LONDELCSEGS of monohabe derivatives of enthrequisons in frozen a Debions. Zhar. Siz. Rate. 36 no.9:1932-1946 s '62.

(MIRA 17:6)

1. Firing off michaskiy institut imeni (.Ya. Karpara, Mozkon.)

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S/076/63/037/002/010/018 B101/B186

AU. HURS:

Shcheglova, N. A., Shigorin, D. N., Ryabchikova, T. S., Jokunikhin, N. S., Moiseyeva, Z. Z. (Moscow)

TITLES

Study of the luminescence spectra of some anthraquinone sarboxylic acid derivatives at low temperatures

PERIC: ...

Zhurnal fizicheskoy khimii, v. 37, no. 2, 1963, 371-377

TEXT: The Luminescence spectra of the following compounds were studied in n-hydrocarbon solutions or in the powder: anthraquinone-α-carboxylic acid and its methyl ester, anthraquinone-β-carboxylic acid and its methyl ester, anthraquinone-1,4-dicarboxylic acid and its dimethyl and diethyl esters, 7-chloro-anthraquinone-2-carboxylic acid and its methyl ester, 7-fluoro-anthraquinone-2-carboxylic acid and its methyl ester, 6-fluoro-anthraquinone-2-carboxylic acid and its methyl ester, and 6-chloro-anthraquinone-2-carboxylic acid. Results: The luminescence spectra of the esters and their halogen derivatives at 77°K have a fine vibration structure. The carbonyl of the anthraquinone ring had the highest frequency. The spectra proved to be highly dependent Card 1/2

Study of the luminescence ...

S/076/63/037/002/010/018 B101/B166

on the sangth of the hydrocarbon chain of the solvent (n-hexane, n-heptane, n-cotane, n-nonane) which fact can be used in the analysis of these compounds. Each substituent being an auxochrome (F, Cl, COOH, COOCH3) has

changes of the major peaks. The luminescence spectra of the powdered halogen derivatives of the acids as well as the esters had no fine structure at 77 k, but a system of narrow bands shifted toward the longwave region. The interdistance between the centers of these bands equals the carbonyl frequency of anthraquinone. In powdered 1,4-anthraquinone dicarboxylic acid, reversible self-extinction of the luminescence was observed. This by intermolecular interaction (and photo transfer) of one carboxyl proton with the p electrons of the oxygen in the anthraquinone carbonyl group, was confirmed by measuring the IR frequency of the carbonyl group. There

ASSOCIATION:

SUBMITURD: Card 2/2 Fiziko khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov) Rovember 16, 1961

SRICORIN, D.N.; SHCHEGLOVA, N.A.; PISKUNOV, A.K.; OZEROVA, G.A.; POKUNIKHIN, N.S.

Mobile of molecules with molecules with the electrons. Dokl. AN SSSR 150 no.4:862-865 Je '63. (MIRA 16:6)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.
Predstavleno akademikom A.N. Tereninym.
(Molecular spectra)
(Hydrogen bonding)

THOUGHT HALF CONTRACT CONTRACTOR CONTRACTOR

L 32069-66 EWT(m)/EWP(j) RM

ACC NR: AR6016172 SOURCE CODE: UR/0058/65/000/011/D012/D012

AUTHOR: Snigorin, D. N.; Shcheglova, N. A.; Piskunov, A. K.; Ozerova, G. A. 44

TITLE: Hydrogen bonds in excited electronic states of molecules with n-electrons 3

SOURCE: Ref. zh. Fizika. Abs. 11083

REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 302-312

TOPIC TAGS: hydrogen bonding, excited state, absorption spectrum, luminescence spectrum, nonmetallic organic derivative, conjugate bond system, ground state, luminescence quenching

ABSTRACT: On the basis of data on the absorption and luminescence spectra of  $\alpha$ -oxyand methoxy-derivatives of anthraquinone/it is shown that the energy of production of the hydrogen bond in the excited state increases compared with the ground state by a factor of almost 2 and reaches 15 kcal. The increase in the energy of the H bond in the case of excitation with conjugated bonds is connected with the increase of the energy of the  $\pi$ -electron interaction in the quasiaromatic cycle, formed with participation of the p-orbit of the hydrogen atom of the X-H group. The question of the role of the H bond in processes of deactivation of the triplet state and luminescence quenching is considered. [Translation of abstract]

SUB CODE: 20, 07

Card 1/1-90

L 20106-65 EWT(m)/EMP(j) Pc-L BSD/SSD(c)/AFWL/ASD(a)-5/AS(mp)-2/AFGC(b)/ESD(gs)
ACCESSION NR: AP4044439 RM S/0076/64/038/008/1963/1972

AUTHOR: Shcheglova, N. A. (Moscow); Shigorin, D. N. (Moscow); Dokunikhin, N. S. (Moscow)

TITLE: Luminescence and absorption spectra of alpha and beta hydroxyanthra-

quinones

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 8, 1964, 1963-1972

TOPIC TAGS: hydroxyanthraquinone, absorption spectrum, luminescence spectrum, hydrogen bond, molecular excitation

ABSTRACT: The luminescence and absorption spectra of  $\kappa$  - and  $\beta$ -hydroxy, dinivaroxy and tetrahydroxyanthraquinones and some of their methoxy derivatives in rormal hydrocarbons were investigated in order to study the spectra of compounds, attaining intramolecular hydrogen bonds and their manifestation in the excited electronic state. It was found that the shape and position of luminescence and absorption bands of a number of hydroxyanthraquinones and some of their methoxy substituted derivatives in n-hydrocarbons at 77K depend on the number and position of the hydroxy groups in the anthroquinone ring. The luminescence spectra

Card 1/3

L 20106-65 ACCESSION NR: AP4044439

of & -hydroxy, 1,5-dihydroxy, & -hydroxy and 2,6-dihydroxyanthraquinones are washed out and shifted toward the red. The washed-out nature of spectra is closely related to the shortened lifetime of the excited state of hydroxyanthraquinones as compared with anthraquinone. Both the luminescence and the absorption spectra of 1, 4-dihydroxy, 1, 2, 5, 8- and 1, 4, 5, 8-tetrahydroxyanthraquinones have a vibrational fine structure. For these substances the established frequencies of purely electronic transitions are 19115 cm<sup>-1</sup>, 18774 cm<sup>-1</sup> and 17667 cm<sup>-1</sup> spectively. The H bond has a significant effect on the nature of the excited state of the molecule. From the comparison of the spectra of a-hydroxy and a-methoxyanthraquinones it is apparent that the formation of H bond leads to the long wave length shift of absorption and luminescence spectra and also to the increase of the intensity of the long wavelength absorption bands. The energy of the H bond has been determined in the excited state for &-hydroxy derivatives of anthraquinones. The energy of the H bond greatly increases during the transition of the molecule into the excited electronic state, which is explained by the increase of the energy of N-electron interaction during the formation of quasiaromatic ring with H bond. Orig. art. has: 6 tables and 4 figures.

Card 2/3

L 20106-65

CCESSION NR: AP4044439

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Institute of

Physical Chemistry)

SUBMITTED: 21Aug63

ENCL: 00

SUB CODE: GC,OP

NO REF SOV: 012

OTHER: 008

Card 3/3

L 16195-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RPL WW/JFW/RM ACCESSION NR: AP4046084 S/0076/64/038/009/2279/2283

AUTHOR: Shigorin, D. N.; Piskunov, A. K.; Ozerova, G. A.; Shcheglova, N. A. Vereyn, N. V.

TITLE: The role of H-bonds in processes of deactivating activated states of molecules leading to the formation of radicals

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 9, 1964, 2279-2283

TOPIC TAGS: H bond, activated molecule, deactivation, radical formation, radical formation mechanism, intermolecular radical formation, EPR spectrum, luminescence

ABSTRACT: The mechanism of radical formation and the role of H-bonds therein was investigated in processes embodying intermolecular radical formation—when the activated molecules form complexes among themselves or with molecules of the media. The EPR spectra and the luminescence were examined of a series of systems: N-ethylacridone, anthraquinone and some of its derivatives, triphenylamine, and carbazole, in different media in a molar ratio of 1:1 with c=10<sup>-3</sup>mol/1.

Card 1/4

L 16195-65 ACCESSION NR: AP4046084

Photo-illuminated powders under vacuum at 77K gave no EPR signal. In samples crystallized from ethanol and in luminophor systems X: ... H-O-R, a singlet appeared whose intensity increased proportionally to the intensity of illumination. Photoactivation of systems with the luminescent chromophore >C=O gave a singlet and EPR spectra corresponding to radicals of the solvent. Photoactivation of systems containing the chromophoric atom >N, gave a weak singlet and intense spectra of the solvent radical (radical yield  $\sim I^n$ ,  $n \approx 2$ ). If the  $\rightarrow N$  atom which formed a H-bond with the O-H groups did not affect the electron excitation, the radical yield was small. In solvents (hydrocarbons) which did not contain the X-H group capable of forming H-bonds, the luminophores did not give noticeable EPR signals. It was concluded the H-bond played an important role in the process of forming radicals from a matrix as a result of deactivating activated states of a molecule. This is a two-stage process (see enclosed figure). Formation of the radical complex takes place in the first stage as a result of the transition of the H atom from the molecule of the matrix to the luminophore molecule due to absorption of a quantum of light in  $S \rightarrow S^*$  transitions. The radical complex is decomposed in the second stage forming radicals of the matrix due to absorption

Card 2/4

L 16195-65

ACCESSION NR: AP4046084

of a quantum of light in the  $S_R \longrightarrow S_R^*$  transition. A network of matrix molecules connected by H-bonds is necessary for this. The yield of radicals in the overall process is proportional to the light intensity  $I^n$ , where  $n \neq 2$ . The triplet activated state does not take part in the process of formation of radicals from the matrix. Orig. art. has: 1 table and 4 figures.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physical

Chemical Institute)

SUBMITTED: 11Oct63

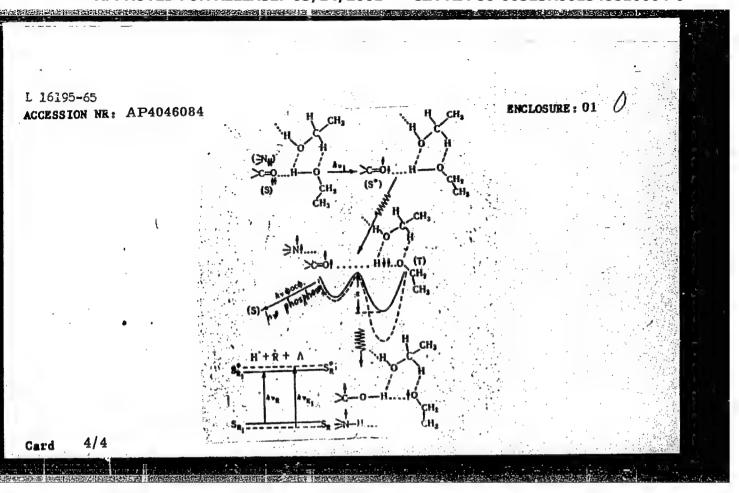
ENCL: 01

SUB CODE: GC

NO REF SOV: 005

OTHER: 000

Card 3/4



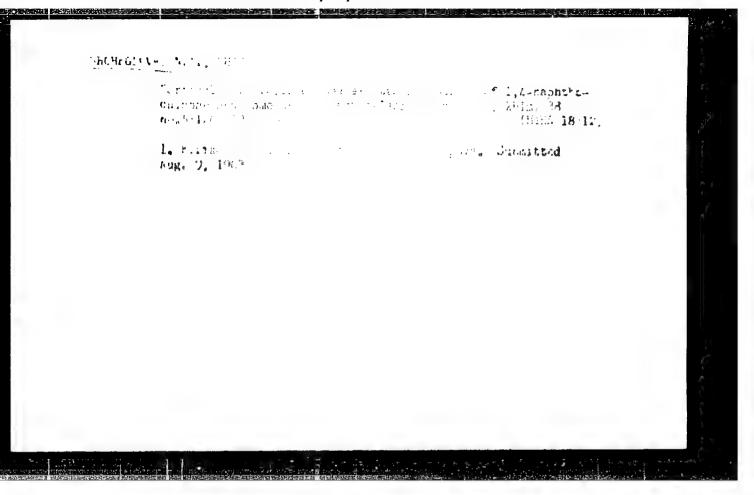
SHIGORIA, P.N.: FICHUNOV, A.K., TO KITA, GLASS THOUSING MASS VEREYN, N.V.

Rolf of the Hebersia, a risk obtained by their redeminance formed as a result of the design region of the exerted as-order states of melecules. Both, 26 SSSS -Form, 2002, 2003 Silver.

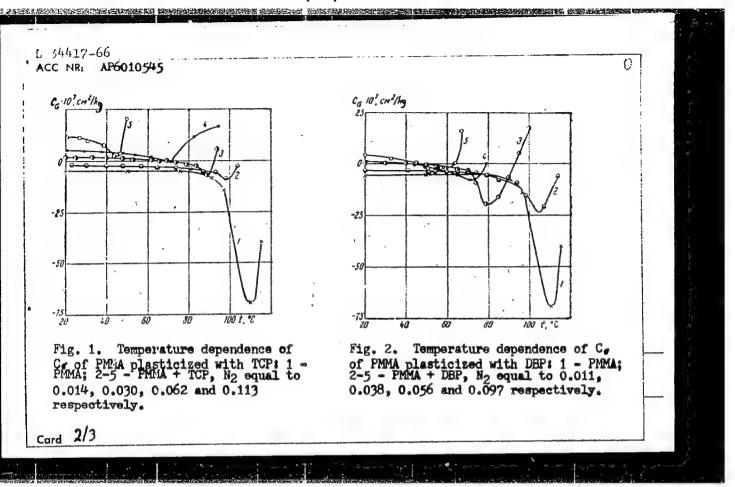
(Miss 17:10)

1. Fizike-khimieneshir linamista ik biribir iya. Predstavlene aka-demikem S.S.Medvedevym.

L 62934-65 EWI(1	)/EWI(m)/EWP(j) IJP(c) RM	
The state of the s	012283 UR/0058/65/000/003/D074/D074	
SOURCE: Ref. zh. F	izika, Abs. 3D597	
AUTHOR: Shcheglova	, N. A.; Shigorin, D. I.	
TITLE: Quasi-line	luminescence spectra of aromatic diketones at 77°K	
CITED SOURCE: Tr.	Komis. po spektroskopii. AN SSSR, wyp. 1, 1964, 648-661	
TOPIC TAGS: aromat	tic ketone, electron structure, electron energy level, line spec-	
trum liminescence	spectrum, electron transition	
trum, luminescence	spectrum, electron transition	
trum, luminescence TRANSLATION: Quasi vibrational analysi	spectrum, electron transition  -line luminescence spectra of aromatic diketones are studied. A s of the spectra is given; the nature of the electron transitions	
trum, luminescence TRANSLATION: Quasi vibrational analysi is determined and t	spectrum, electron transition  -line luminescence spectra of aromatic diketones are studied. A  is of the spectra is given; the nature of the electron transitions the positions of the electron levels are found. The effect of sub-	
trum, luminescence TRANSLATION: Quasi vibrational analysi is determined and t stituents on the em	spectrum, electron transition  -line luminescence spectra of aromatic diketones are studied. A ls of the spectra is given; the nature of the electron transitions the positions of the electron levels are found. The effect of sub- mission and absorption spectra is examined.	
trum, luminescence TRANSLATION: Quasi vibrational analysi is determined and t stituents on the em	spectrum, electron transition  -line luminescence spectra of aromatic diketones are studied. A  is of the spectra is given; the nature of the electron transitions the positions of the electron levels are found. The effect of sub-	
trum, luminescence TRANSLATION: Quasi vibrational analysi is determined and t	spectrum, electron transition  -line luminescence spectra of aromatic diketones are studied. A ls of the spectra is given; the nature of the electron transitions the positions of the electron levels are found. The effect of sub- mission and absorption spectra is examined.	
trum, luminescence TRANSLATION: Quasi vibrational analysi is determined and t stituents on the em	spectrum, electron transition  -line luminescence spectra of aromatic diketones are studied. A ls of the spectra is given; the nature of the electron transitions the positions of the electron levels are found. The effect of sub- mission and absorption spectra is examined.	



SOURCE CODE: UR/0069/65/027/006/0306/0809 · ACC NR. AP6010545 AUTHOR: Vedernikova, N. F.; Sokolov, S. I.; Fel'dman, R. I.; Shchegolevskaya, N. A. ORG: Moscow Institute of Chemical Machinery (Moskovskiy institut khimicheskogo mashinostroyeniya); Moscow Oblast Polytechnic Institute im. N. K. Krupskaya (Moskovskiy oblastnoy pedagogicheskly institut) Interaction of polymers with plasticizers. Part 7. Thermooptical character-TITLE: istics of the effect of plasticizers/on polymethyl methacrylate والمه SOURCE: Kolloidnyy zhurnal, v. 27, no. 6, 1965, 806-909 TOPIC TAGS: plasticizer, polymethylmethacrylate, double refraction, phosphate ester ABSTRACT: In order to clarify the specificity of the optical effect of plasticization, the simultaneous influence of plasticizers and temperature on the birefringence of binary systems composed of a polymer and a low-molecular plasticizer was investi-Thermooptical measurements were made in the two systems polymethyl methacrylate (PMMA)-dibutyl phosphate (DBP) and PMMA-tricresyl phosphate (TCP). The curve representing the temperature dependence of the optical birefringence coefficient C of polymethyl methacrylate (see Fig. 1 and 2) is shifted by the presence of the plasticizer in the direction of the tempera are axis toward lower values, in conformity with the mole fraction rule, and in the direction of the C. axis toward more UDC: 541.64:535.551 1/3 Card



I 34417-66 ALC NR: AP6010545

positive values. The shift along the  $C_{\mathfrak{g}}$  axis depends on the composition and structure of the plasticizer molecules. It is concluded that the influence of the plasticizers introduced into PMMA is dual in nature: in some respects, it is related to a change in the state of aggregation of the polymer upon addition of the plasticizer, and is governed by known general rules established by studying the mechanical properties; in other respects, the plasticizer affects the optical properties according to its individual characteristics, which depend on the composition and structure of its molecules. Orig. art. has: 3 figures.

SUB CODE: 07/ SUBM DATE: 26Jun64/ ORIG REF: 004/ OTH REF: 001

Card 3/3

SECREGIEVA, M.A.; SHICORIN, B.M.; GERRERM, M.V.

Flectronic spectra of aromatic X-diketones. Thur. fiz. Khim.
39 no.4:893-901 Ap '65. (MRA 19:1)

1. Piwiko-khimicheskiy institut imeni Karpova. Submitted Nov. 11,
1963.

MELAMED, Ya.P.; SHCHEGLOVA, N.G.

Case of echinococcic hydatid cyst of hip muscles. Zdrav.Kazakh.
22 no.11:70-71 '62. (MIRA 16:2)

1. Iz khirurgicheskogo otdeleniya zheleznodorozhnoy bol'nitsy
g. Ural'ska. (MUSCLES—HYDATIDS)

SHOREGLOVA, N.S.

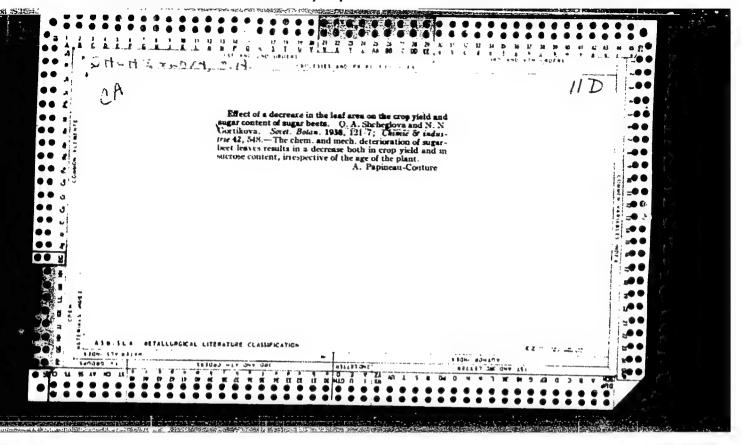
Production of economically valuable artificial mutations in grain crops. Genetika no.2:143-147 Ag '65. (MIRA 18:10)

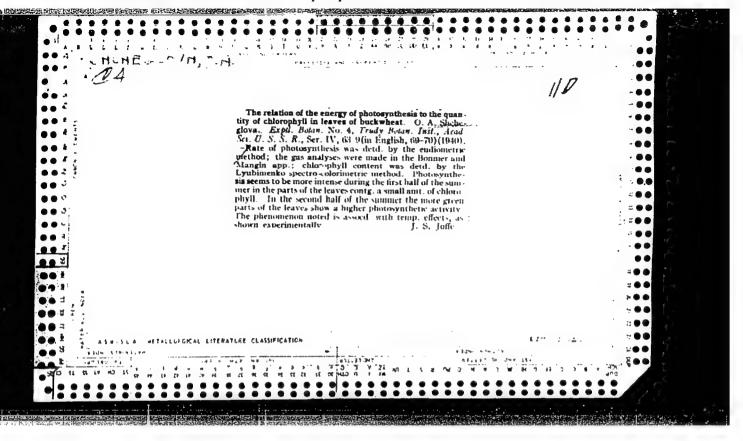
1. Neuchno-issledovatel'skiy institut sel'skogo khozyaystva TSentral'nykh rayonov nechernozemnoy zony, Moskovskaya oblast'.

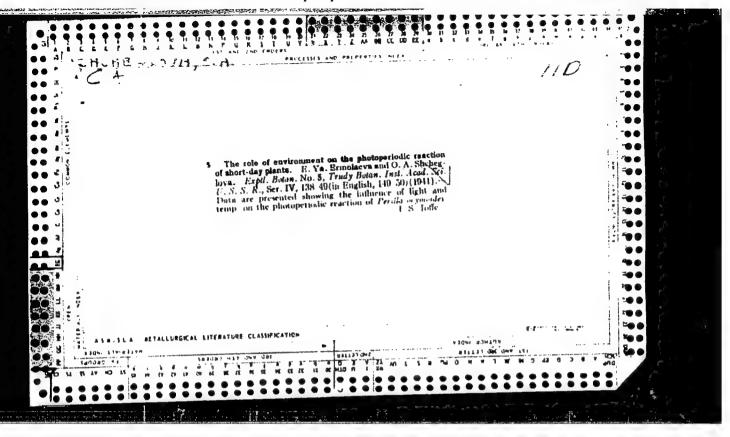
ERGREGLOVA, O. A.

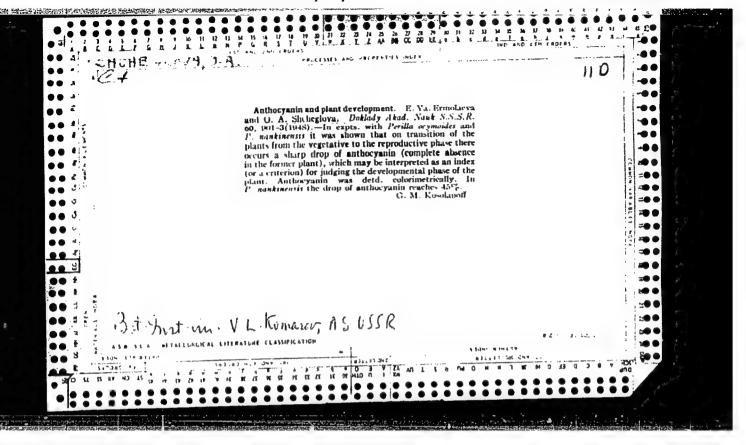
SHCHEGIOVA, O. A. "Influence of Mechanical Decrease of Leaf Area On Development of the Plant, Accumulation of Dry Weight, and Yield of Orgin of Spring Wheat and Barley," <u>Trudy po Zashchite Fastenii</u>, Seriis 3, no. 3, 1933, pp. 73-112. 123.92 L540

SOURCE: SIRA SI 90-53, 15 Dec. 1953









ITYBL, F. F.; GHCHENOWI, T. A., DILIDELKOVA, A. P.

Potany - Physiology

Influence of light and temperature upon the distribution and variability of plants at different stages of growth, Trudy Bot. inst. AN BOSH. Eksp. bot., No. 8, 1951.

9. HOMERLY HIST OF THUMAN ACCESSIONS, Library of Congress, March 1952, Uncl.

SHCHEGLOVA, O.A.; BKL'DENKOVA, A.F.

Effect of light and temperature factors on the readjustment and variability of plants in the light of phanic development. Paper 5. Physiological basis of extensive distribution of plants and the formation of new forms. Trudy Bot.inst. Ser. 4 no. 9:37-62 '53. (MLRA 6:6)

1. Botanicheskiy institut imeni V.L. Komarova akademii nauk SSSR, (Phytogeography) (Botany--Variation)

SHCHEGLOVA, O.A.; BEL'DENKOVA, A.F.; LEYSLE, F.F.; KORYAKINA, V.F.

Conditions of phasic development as one of the essential factors of geographic distribution of plants and their morphological changes. Izv.AN SSSR Ser.biol. ne.4:52-74 Jl-Ag '53. (MLRA 6:7)

1. Botanicheskiy institut Akademii nauk SSSR. (Betany--Morphology) (Phytogeography)

SHCHEGLOVA, G.A.: LEYSLE, F.F.

Effect of the duration of daylight on the formation of vegetative and reproductive buds in the elm. Dokl.AN SSSR 95 no.4:893-895
Ap '54.

(MLRA 7:3)

1. Botanicheskiy institut Akademii nauk SSSR. (Elm) (Budding)

YERMOLAYEV, K.F.; KULEMOV, Kh.Kh.; SHCHEGLOVA, O.A.

Methods of making quality-geometric map of complex metal deposits.

Trudy Alt, GMUII AN Kazakh. SSR 12:102-109 '62. (MIRA 15:8)

(Ore deposits-Maps)

#### "APPROVED FOR RELEASE: 03/14/2001 CIA-

CIA-RDP86-00513R001548810004-0

ABS GOTOVA, A. T.

231715

USSR/Medicine - Cancer Diagnosis

Aug 52

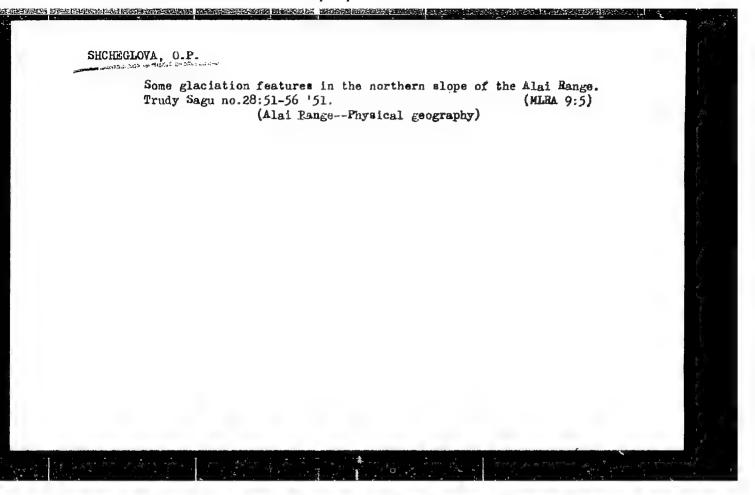
"Clinical Microscopic Examination of the Returns of Gastric Lavage, as a Diagnostic Method for Gastric Cancer," O. I. Shcheglova, Novosibirsk, Hosp Therapeutic Clinic, Novosibirsk Med Inst

"Klin Med" Vol 30, No 8, pp 81-83

Describes a new and simplified method of early diagnosis in suspected cases of gastric malignancy. Recommends use of this method for diagnostic and prevention purposes.

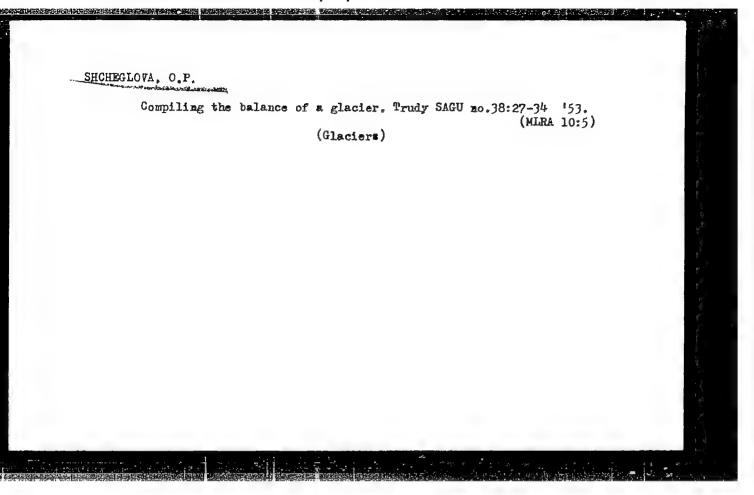
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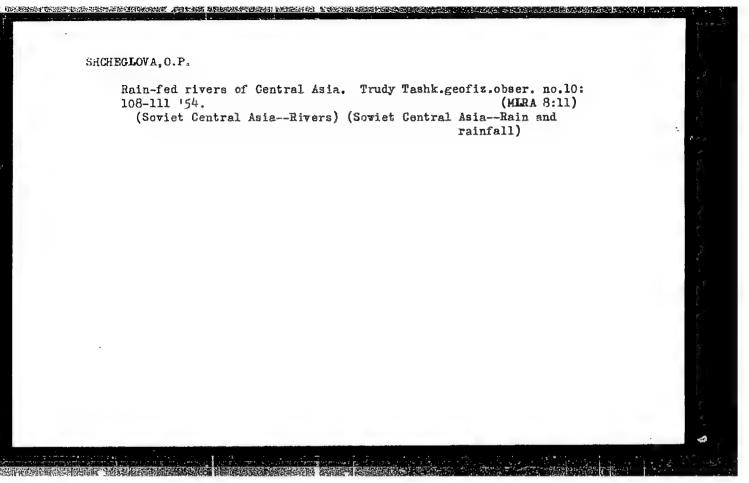
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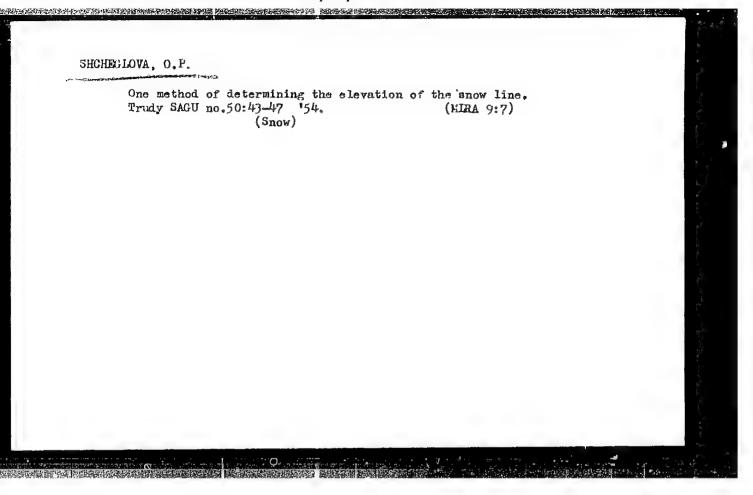


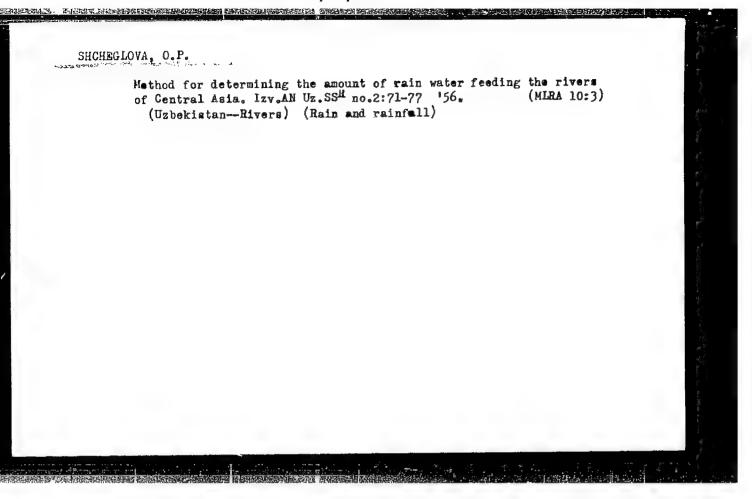
- 1. SHCHEGLOVA, O. P.
- 2. USSR (600)
- 4. Ice
- 7. Energy of freezing. Izv. vses. geog. obshch. 84 no. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.





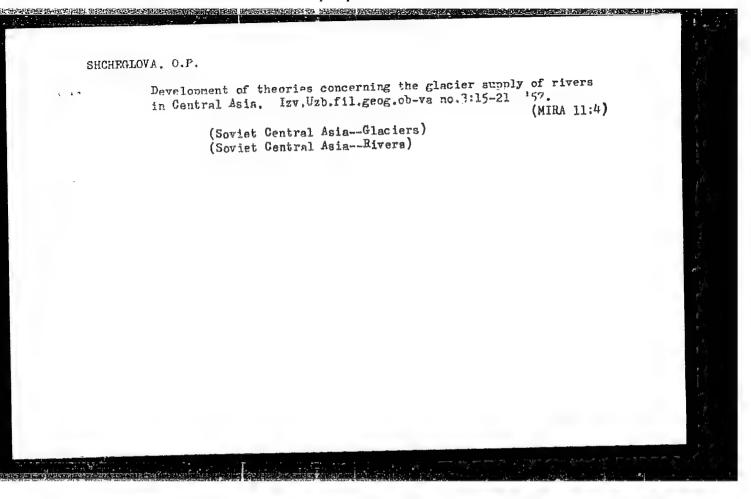


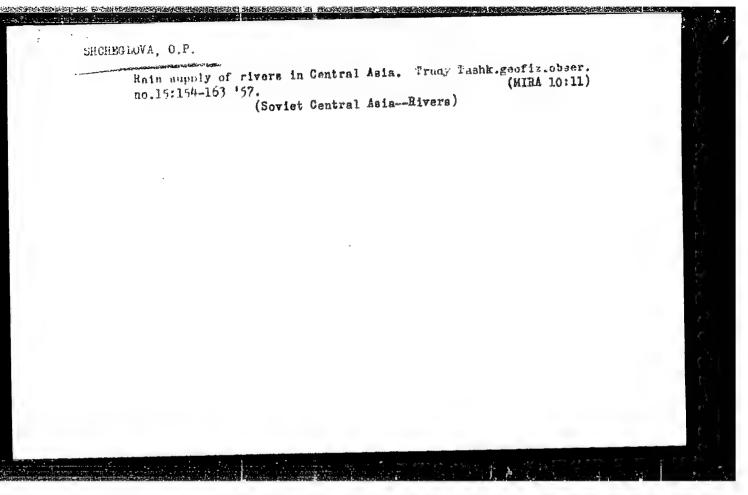


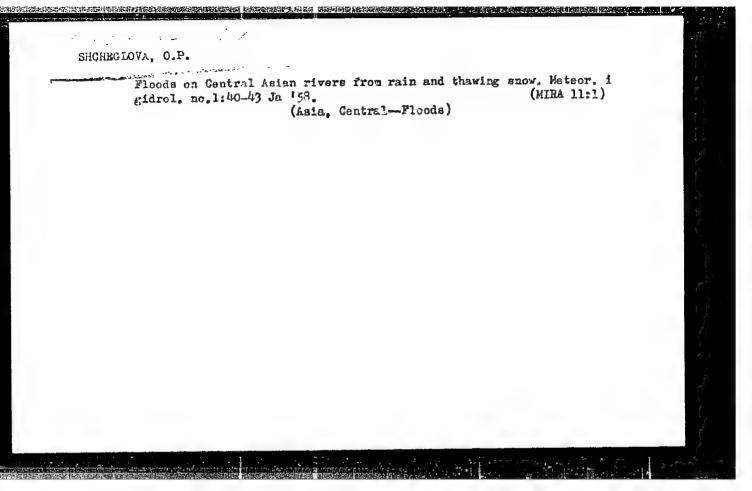
SHCHEGLOVA, A.P.

Variability in the rain water runoff of rivers in Central Asia. Dokl. AN Uz.SSR no.11:41-43 '56. (MIRA 13:6)

1. Sredneaziatskiy gosudarstvennyy universitet imeni V.I.Lenina Predstavleno chlenom-korrespondentom AN UZSSR N.L.Korzhenevskim. (Soviet Central Asia-Runoff)







AUTHOR:

Shoheelova Por Programme Shows

507/12-90-6-7/23

TITLE :-

Two Flood Waters on the River Toguz-Bulak (Iva selya na

saye Toguz-Pulak)

PERIODICAL:

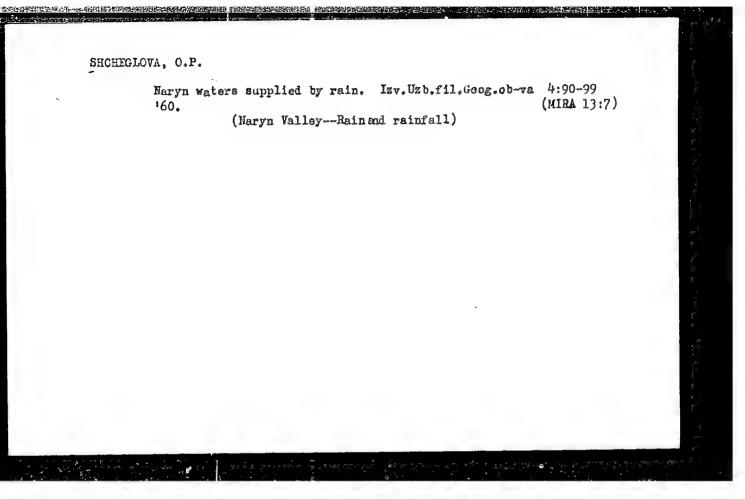
Izvestiya vsesoyuznogo geograficheskogo obshchestva, 1958,

Vol 90, Nr 6, pp 541 - 543 (USSR)

ABSTRACT:

The River Toguz-Bulak flows from the southern slope of the mountain range Kungey Ala Tau within the district of the Sholpan-Ata Settlement. In the summer, the water of the river is almost entirely absorbed by 2 canals which irrigate the settlement farms and fields of the State Stud Farm. The remaining water flows out to the foot hill plain and reaches, underground, the Lake Issyk-Kul! The riverbed, crossing the automobile road Rybach ye - Przheval sk within the precincts of the Settlement Cholpan-Ata, is usually dry in the summer The author gives a brief physico-geographical description of the river, and particulars of the flood waters coming down the river on two oc-There are I chart, I profile and I graph.

Card 1/1



SHCHEGLOVA, O.P.

Glassifying Central Asian rivers according to their types of water supply. Izv.AN SSSR.Ser.geog. no.3:19-27 My-Je '61. (MIRA 14:5)

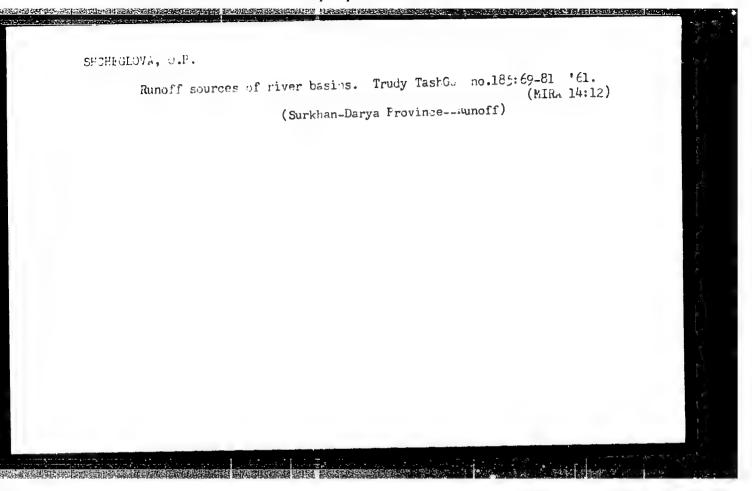
1. Sredneaziatskiy gosudarstvennyy universitet imeni V.I.Lenina. (Soviet Central Asia—Rivers) (Runoff)

SHCHEGLOVA, O.P.; CHIRKOVA, A.A.

Roughness coefficients of rivers in the Chirchik Basin. Trudy
Sred.-Az.nauch.-issl.gidrometeor.inst. no.7:92-102 '61.

(Chirchik Valley-Hydrology)

(Chirchik Valley-Hydrology)



SHCHEGLOVA, O.P.

Water turbidity and the phases of the water regime of mountain rivers. Izv. AN SSSR. Ser.geog. no.1191-95 Ja-F '63.

(MIRA 1612)

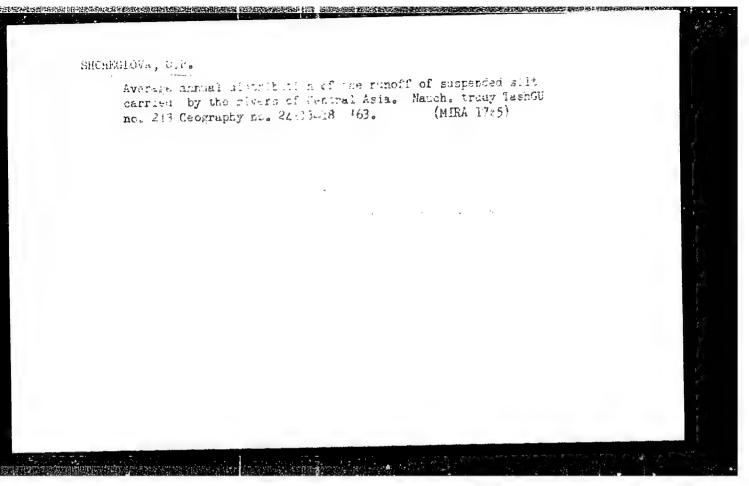
1. Tashkentskiy gosudarstvennyy universitet im. V.I. Lenina.

(Soviet Central Asia—Rivers) (Silt)

SHCHEGLWA, 0.P.

Determining average perennial dates for the beginning and the end of floods in mountain rivers. Nauch. trudy TashGU no.193: (MRA 16:7)

(Soviet Central Asia--Floods)

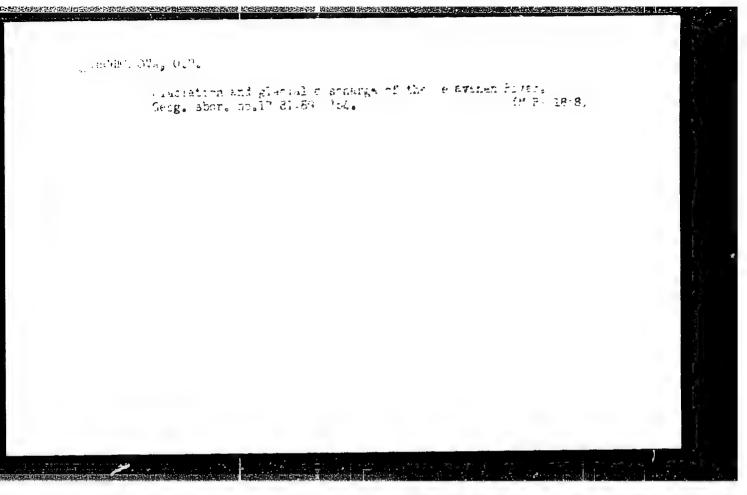


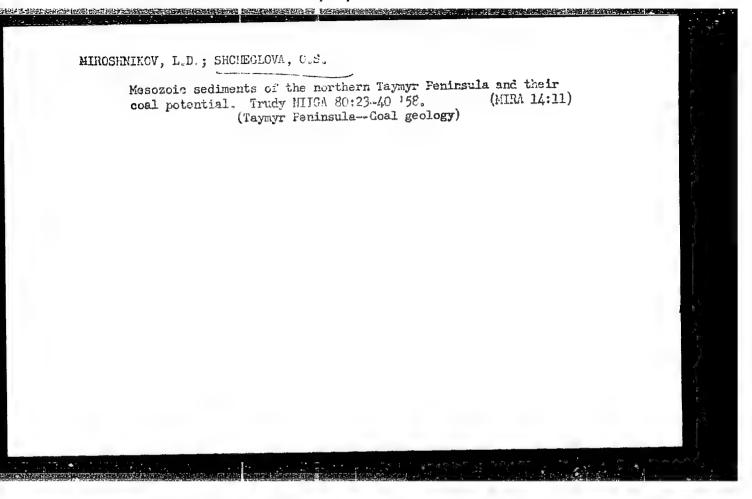
SHCHEGLOVA, O. P., kand. fiz.-matem. nauk; LUT, B. F.; MECHITOV, I. I., kand. tekhn. nauk (Tbilisi); IVERONOVA, I. M., kand. geograf. nauk (Moskva); IOGANSON, V. Ye. (Moskva); LARIONOV, P. M. (Uzhgorod)

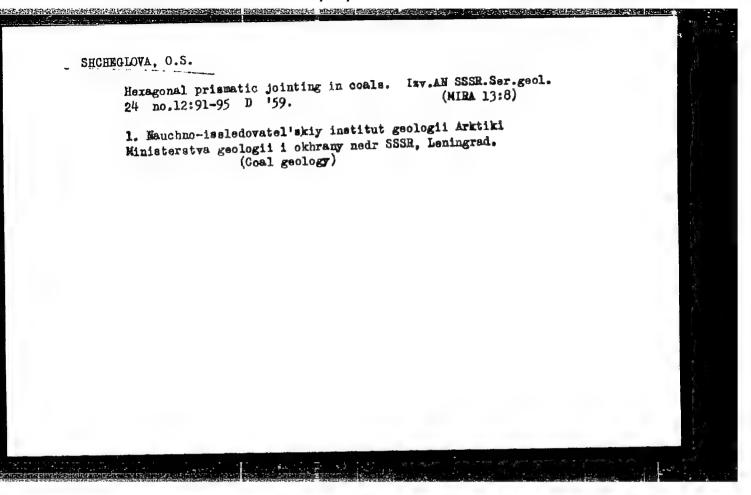
Mud torrents, Prioroda 52 no.1:90-96 167. (MIRA 16:1)

1. Tashkentskiy gosudarstvennyy universitet im. V. I. Lenina for Shcheglova). 2. Baykal'skaya limnologicheskaya stantsiya, poselok Listvenichnoye, Irkutskaya obl. (for Lut).

(Runoff) (Erosion)



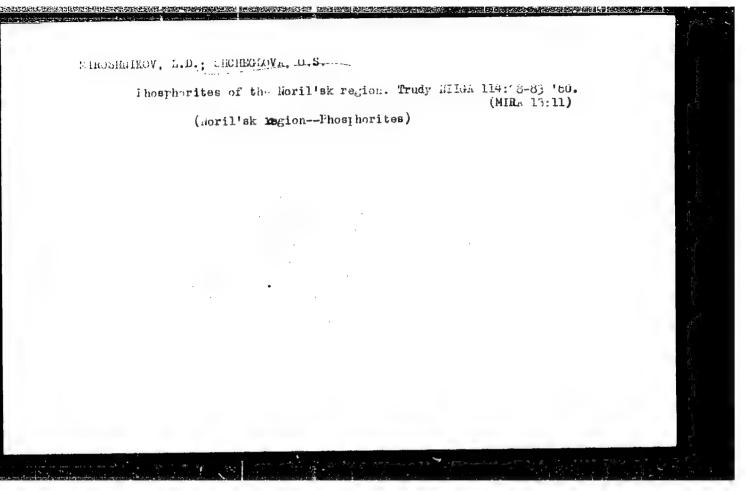




MIROSHNIKOV, L.D., SHCHEGLOVA, O.S.

Concentration of water-soluble sulfates on the Chelyuskin Peninsula. Zap. Vses. min. ob-va 88 no.6:686-692 '59. (MIRA 13:8)

 Institut geologii Arktiki, Leningrad. (Chelyuskin Cape—Sulfates)



3 (5)
AUTHORS:

Miroshnikov, L. D., Kravtsov, A. G., SOV/20-126-2-37/64

and the second of the second o

Shcheglova, O. S.

TITLE:

Stratigraphical Scheme of the Lower and Middle Paleozoic of the North-western Edge of the Siberian Plateau (Skhema stratigrafii nizhnego i srednego paleozoya severo-zapadnoy

okrainy Sibirskoy platformy)

Section 1 in the case of the first of the case of the

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2,

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ABSTRACT:

The scheme of the pre-Tungusskiye sediments of the region named in the title was hitherto very inaccurate (Refs 1, 2, 4 and G. D. Maslov 1946-1956) and in the course of time it became doubtful (Ref 3). Between 1955-57, the authors studied, according to the different strata the cross sections of the above named formations in the district of Noril'sk. In the course of these investigations 300 types of fossils were determined and the following stratigraphical scheme was established. After the middle Cambrian (110 meters thick) there follows (upwards): 200 meters of the Dressbach stage of the upper Cambrian (V. A. Markovskiy and others 1958). A layer of fossil (up to 1000 meters thick) allows it to be

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brought into correlation with an American one, which corresponds to the Frankonskiy stage of the Pacific Province. The Cambrian is limited by 100 meters thick chalk, which corresponds lithologically and with respect to its position to the Trempil'onskiy stage of the North-American Plateau. The oldest Ordovician deposits lie concordantly on the River Omnutakh on red-colored Trempil'o rocks. Organic remains are represented by Brachiopodes Finkelnburgia sp. (determined by O. N. Andreyeva). This 75 meters thick layer is eliminated as Ust'-Kutskiy stage of the Lower Ordovician (Ref. 3). Higher on the Omnutakh, Chopko, Mokutey and other rivers lies a 400 meters thick mass of the Lower Ordovician (Fossil definition by V. A. Vostokova; collected by A. V. Maksudov, determined by Z. G. Balashov). Still higher on the River Omnutakh lie successive chalks of the Krivolutskaya stage of the Middle Ordovician (Collected by G. A. Polyakova; determined by A. F. Abushik and L. V. Nekhorosheva). In the vicinity of the River Imangda rocks of the Mangazeyskaya stage of the Middle Ordovician were discovered during boring operations (fossil-determination by Z. A. Maksimova and R. S.

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Yeltysheva). Thickness 37-44 meters. On the Mangazeyskiy stage there are deposited sediments of the Upper Llandovery. There follows, Venlock with the lower and upper substage, and Ludlov with the lower and upper substage. Thereupon lie concordantly, loamy chalk of the Zhedinskiy stage of the Lower-Devonian, 370-240 meters thick. Then Coblence stage of the Lower Devonian, up to 75 meters thick, Eifel stage of the Middle Devonian, 140-170 meters thick. Then there follows the Givetian stage up to 130 meters thick, and the Frasnian stage of the Upper Devonian of a thickness of 100 meters. Fammenian stage lacks in section. On the Dolomites of the Frasnian lies a mass of dark chalk (100 meters), which according to definitions of fossils by A. N. Sokol'skaya may belong to the Tournaisian stage of the Lower Carboniferous. Still higher follows the continental Tungusskaya series. There are 4 Soviet references.

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